

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/578,013A  
Source: TEWTP  
Date Processed by STIC: 5/15/06

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IFWP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/578,013

DATE: 05/15/2006

TIME: 10:07:26

Input Set : A:\12920.0013.00PC00.ST25.txt  
 Output Set: N:\CRF4\05152006\J578013.raw

3 <110> APPLICANT: Garry, Jr., Robert F.  
 4 Wilson, Russell B.  
 6 <120> TITLE OF INVENTION: METHOD OF PREVENTING VIRUS:CELL FUSION BY INHIBITING THE  
 FUNCTION  
 7 OF THE FUSION INITIATION REGION IN RNA VIRUSES HAVING CLASS I  
 8 MEMBRANE FUSOGENIC ENVELOPE PROTEINS  
 10 <130> FILE REFERENCE: 12920.0013.00PC00  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/578,013  
 C--> 12 <141> CURRENT FILING DATE: 2006-05-03  
 12 <150> PRIOR APPLICATION NUMBER: US 60/517,181  
 13 <151> PRIOR FILING DATE: 2003-11-04  
 15 <160> NUMBER OF SEQ ID NOS: 31  
 17 <170> SOFTWARE: PatentIn version 3.3  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 39  
 21 <212> TYPE: PRT  
 22 <213> ORGANISM: Artificial Sequence  
 24 <220> FEATURE:  
 25 <223> OTHER INFORMATION: Synthetic peptide  
 27 <400> SEQUENCE: 1  
 29 Leu Ile Met Lys Asn His Leu Arg Asp Ile Met Gly Ile Pro Tyr Cys  
 30 1 5 10 15  
 33 Asn Tyr Ser Arg Tyr Trp Tyr Leu Asn His Thr Ser Thr Gly Lys Thr  
 34 20 25 30  
 37 Leu Pro Arg Cys Trp Leu Ile  
 38 35  
 41 <210> SEQ ID NO: 2  
 42 <211> LENGTH: 100  
 43 <212> TYPE: PRT  
 44 <213> ORGANISM: Artificial Sequence  
 46 <220> FEATURE:  
 47 <223> OTHER INFORMATION: Synthetic peptide  
 49 <400> SEQUENCE: 2  
 51 Leu Ile Arg Ala Ala Glu Ile Arg Ala Ser Ala Asn Leu Ala Ala Thr  
 52 1 5 10 15  
 55 Lys Met Ser Glu Cys Val Leu Gly Gln Ser Lys Arg Val Asp Phe Cys  
 56 20 25 30  
 59 Gly Lys Gly Tyr His Leu Met Ser Phe Pro Gln Ala Ala Pro His Gly  
 60 35 40 45  
 63 Val Val Phe Leu His Val Thr Tyr Val Pro Ser Gln Glu Arg Asn Phe  
 64 50 55 60  
 67 Thr Thr Ala Pro Ala Ile Cys His Glu Gly Lys Ala Tyr Phe Pro Arg  
 68 65 70 75 80  
 71 Glu Gly Val Phe Val Phe Asn Gly Thr Ser Trp Phe Ile Thr Gln Arg

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75	Asn Phe Phe Ser		
76	100		
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80	<211> LENGTH: 32		
81	<212> TYPE: PRT		
82	<213> ORGANISM: Artificial Sequence		
84	<220> FEATURE:		
85	<223> OTHER INFORMATION: Synthetic peptide		
87	<400> SEQUENCE: 3		
89	Leu Arg Thr Phe Ser Ile Leu Asn Arg Lys Ala Ile Asp Phe Leu Leu		
90	1 5 10 15		
93	Gln Arg Trp Gly Gly Thr Cys His Ile Leu Gly Pro Asp Cys Cys Ile		
94	20 25 30		
97	<210> SEQ ID NO: 4		
98	<211> LENGTH: 43		
99	<212> TYPE: PRT		
100	<213> ORGANISM: Artificial Sequence		
102	<220> FEATURE:		
103	<223> OTHER INFORMATION: Synthetic peptide		
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107	Ile Gln Asp Leu Glu Lys Tyr Val Glu Asp Thr Lys Ile Asp Leu Trp		
108	1 5 10 15		
111	Ser Tyr Asn Ala Glu Leu Leu Val Ala Leu Glu Asn Gln His Thr Ile		
112	20 25 30		
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121	<212> TYPE: PRT		
122	<213> ORGANISM: Artificial Sequence		
124	<220> FEATURE:		
125	<223> OTHER INFORMATION: Synthetic peptide		
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133	Gly		
137	<210> SEQ ID NO: 6		
138	<211> LENGTH: 94		
139	<212> TYPE: PRT		
140	<213> ORGANISM: Artificial Sequence		
142	<220> FEATURE:		
143	<223> OTHER INFORMATION: Synthetic peptide		
145	<400> SEQUENCE: 6		
147	Trp Tyr Thr Thr Val Pro Lys Tyr Val Ala Thr Gln Gly Tyr Leu Ile		
148	1 5 10 15		
151	Ser Asn Phe Asp Glu Ser Ser Cys Thr Phe Met Pro Glu Gly Thr Val		
152	20 25 30		
155	Cys Ser Gln Asn Ala Leu Tyr Pro Met Ser Pro Leu Leu Gln Glu Cys		

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156           35                          40                          45  
159 Leu Arg Gly Ser Thr Lys Ser Cys Ala Arg Thr Leu Val Ser Gly Ser  
160        50                              55                           60  
163 Phe Gly Asn Arg Phe Ile Leu Ser Gln Gly Asn Leu Ile Ala Asn Cys  
164 65                                   70                           75                           80  
167 Ala Ser Ile Leu Cys Lys Cys Tyr Thr Thr Gly Thr Ile Ile  
168                                       85                           90  
171 <210> SEQ ID NO: 7  
172 <211> LENGTH: 57  
173 <212> TYPE: PRT  
174 <213> ORGANISM: Artificial Sequence  
176 <220> FEATURE:  
177 <223> OTHER INFORMATION: Synthetic peptide  
179 <400> SEQUENCE: 7  
181 Leu Gln Ala Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln Gln  
182 1                                   5                           10                           15  
185 Leu Leu Gly Ile Trp Gly Cys Ser Gly Lys Leu Ile Cys Thr Thr Ala  
186        20                           25                           30  
189 Val Pro Trp Asn Ala Ser Trp Ser Asn Lys Ser Leu Glu Gln Ile Trp  
190        35                           40                           45  
193 Asn His Thr Thr Trp Met Glu Trp Asp  
194        50                           55  
197 <210> SEQ ID NO: 8  
198 <211> LENGTH: 9  
199 <212> TYPE: PRT  
200 <213> ORGANISM: Artificial Sequence  
202 <220> FEATURE:  
203 <223> OTHER INFORMATION: Synthetic peptide  
205 <400> SEQUENCE: 8  
207 Ile Leu Asn Arg Lys Ala Ile Asp Phe  
208 1                                   5  
211 <210> SEQ ID NO: 9  
212 <211> LENGTH: 8  
213 <212> TYPE: PRT  
214 <213> ORGANISM: Artificial Sequence  
216 <220> FEATURE:  
217 <223> OTHER INFORMATION: Synthetic peptide  
219 <400> SEQUENCE: 9  
221 Cys His Ile Leu Gly Pro Asp Cys  
222 1                                   5  
225 <210> SEQ ID NO: 10  
226 <211> LENGTH: 19  
227 <212> TYPE: PRT  
228 <213> ORGANISM: Artificial Sequence  
230 <220> FEATURE:  
231 <223> OTHER INFORMATION: Synthetic peptide  
233 <400> SEQUENCE: 10  
235 Phe Leu Leu Gln Arg Trp Gly Gly Thr Cys His Ile Leu Gly Pro Asp  
236 1                                   5                           10                           15

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Input Set : A:\12920.0013.00PC00.ST25.txt

Output Set: N:\CRF4\05152006\J578013.raw

239 Cys Cys Ile  
243 <210> SEQ ID NO: 11  
244 <211> LENGTH: 9  
245 <212> TYPE: PRT  
246 <213> ORGANISM: Artificial Sequence  
248 <220> FEATURE:  
249 <223> OTHER INFORMATION: Synthetic peptide  
251 <400> SEQUENCE: 11  
253 Leu Lys Leu Leu Arg Tyr Tyr Thr Glu  
254 1 5  
257 <210> SEQ ID NO: 12  
258 <211> LENGTH: 10  
259 <212> TYPE: PRT  
260 <213> ORGANISM: Artificial Sequence  
262 <220> FEATURE:  
263 <223> OTHER INFORMATION: Synthetic peptide  
265 <400> SEQUENCE: 12  
267 Cys Thr Phe Met Pro Glu Gly Thr Val Cys  
268 1 5 10  
271 <210> SEQ ID NO: 13  
272 <211> LENGTH: 19  
273 <212> TYPE: PRT  
274 <213> ORGANISM: Artificial Sequence  
276 <220> FEATURE:  
277 <223> OTHER INFORMATION: Synthetic peptide  
279 <400> SEQUENCE: 13  
281 Trp Tyr Thr Thr Val Pro Lys Tyr Val Ala Thr Gln Gly Tyr Leu Ile  
282 1 5 10 15  
285 Ser Asn Phe  
289 <210> SEQ ID NO: 14  
290 <211> LENGTH: 9  
291 <212> TYPE: PRT  
292 <213> ORGANISM: Artificial Sequence  
294 <220> FEATURE:  
295 <223> OTHER INFORMATION: Synthetic peptide  
297 <400> SEQUENCE: 14  
299 Cys Leu Arg Gly Ser Thr Lys Ser Cys  
300 1 5  
303 <210> SEQ ID NO: 15  
304 <211> LENGTH: 36  
305 <212> TYPE: PRT  
306 <213> ORGANISM: Artificial Sequence  
308 <220> FEATURE:  
309 <223> OTHER INFORMATION: Synthetic peptide  
311 <400> SEQUENCE: 15  
313 Thr Leu Val Ser Gly Ser Phe Gly Asn Arg Phe Ile Leu Ser Gln Gly  
314 1 5 10 15  
317 Asn Leu Ile Ala Asn Cys Ala Ser Ile Leu Cys Lys Cys Tyr Thr Thr  
318 20 25 30

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Input Set : A:\12920.0013.00PC00.ST25.txt  
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321 Gly Thr Ile Ile  
322 35  
325 <210> SEQ ID NO: 16  
326 <211> LENGTH: 234  
327 <212> TYPE: PRT  
328 <213> ORGANISM: LASSA VIRUS  
330 <400> SEQUENCE: 16  
332 Leu Leu Gly Thr Phe Thr Trp Thr Leu Ser Asp Ser Glu Gly Asn Glu  
333 1 5 10 15  
336 Thr Pro Gly Gly Tyr Cys Leu Thr Arg Trp Met Leu Ile Glu Ala Glu  
337 20 25 30  
340 Leu Lys Cys Phe Gly Asn Thr Ala Val Ala Lys Cys Asn Glu Lys His  
341 35 40 45  
344 Asp Glu Glu Phe Cys Asp Met Leu Arg Leu Phe Asp Phe Asn Lys Gln  
345 50 55 60  
348 Ala Ile Arg Arg Leu Lys Thr Glu Ala Gln Met Ser Ile Gln Leu Ile  
349 65 70 75 80  
352 Asn Lys Ala Val Asn Ala Leu Ile Asn Asp Gln Leu Ile Met Lys Asn  
353 85 90 95  
356 His Leu Arg Asp Ile Met Gly Ile Pro Tyr Cys Asn Tyr Ser Arg Tyr  
357 100 105 110  
360 Trp Tyr Leu Asn His Thr Ser Thr Gly Lys Thr Ser Leu Pro Arg Cys  
361 115 120 125  
364 Trp Leu Ile Ser Asn Gly Ser Tyr Leu Asn Glu Thr Lys Phe Ser Asp  
365 130 135 140  
368 Asp Ile Glu Gln Gln Ala Asp Asn Met Ile Thr Glu Met Leu Gln Lys  
369 145 150 155 160  
372 Glu Tyr Ile Asp Arg Gln Gly Lys Thr Pro Leu Gly Leu Val Asp Leu  
373 165 170 175  
376 Phe Val Phe Ser Thr Ser Phe Tyr Leu Ile Ser Ile Phe Leu His Leu  
377 180 185 190  
380 Val Lys Ile Pro Thr His Arg His Ile Val Gly Lys Pro Cys Pro Lys  
381 195 200 205  
384 Pro His Arg Leu Asn His Met Gly Ile Cys Ser Cys Gly Leu Tyr Lys  
385 210 215 220  
388 Gln Pro Gly Val Pro Val Arg Trp Lys Arg  
389 225 230  
392 <210> SEQ ID NO: 17  
393 <211> LENGTH: 388  
394 <212> TYPE: PRT  
395 <213> ORGANISM: SARS VIRUS  
397 <400> SEQUENCE: 17  
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400 1 5 10 15  
403 Met Ala Tyr Arg Phe Asn Gly Ile Gly Val Thr Gln Asn Val Leu Tyr  
404 20 25 30  
407 Glu Asn Gln Lys Gln Ile Ala Asn Gln Phe Asn Lys Ala Ile Ser Gln  
408 35 40 45  
411 Ile Gln Glu Ser Leu Thr Thr Ser Thr Ala Leu Gly Lys Leu Gln

**VERIFICATION SUMMARY**

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Input Set : A:\12920.0013.00PC00.ST25.txt

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date